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	7590 05/07/2004		EXAMINER	
SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A. P.O. BOX 2938			MANĆHO, RONNIE M	
MINNEAPOLIS, MN 55402			ART UNIT	PAPER NUMBER
			3663	
			DATE MAILED 05/07/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/086,370	CHILDS ET AL.	
Office Action Summary	Examiner	Art Unit	
	Ronnie Mancho	3663	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tirr within the statutory minimum of thirty (30) days vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D. (35.U.S.C. & 133)	
Status			
1) Responsive to communication(s) filed on 19 De	<u>ecember 2003</u> .		
2a) This action is FINAL . 2b) This	action is non-final.		
3) Since this application is in condition for allowar			
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4)⊠ Claim(s) <u>1-12, 25-32,</u> is/are pending in the app	olication.		
4a) Of the above claim(s) is/are withdraw			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-12 and 25-32</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers			
9)☐ The specification is objected to by the Examiner	r.		
10) ☐ The drawing(s) filed on is/are: a) ☐ acce		Examiner.	
Applicant may not request that any objection to the o			
Replacement drawing sheet(s) including the correcti			
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).	
1.☐ Certified copies of the priority documents	: have been received		
2. Certified copies of the priority documents		an No	
3. Copies of the certified copies of the priori			
application from the International Bureau			
* See the attached detailed Office action for a list of	of the certified copies not received	d.	

Attachment(s) 1) Notice of References Cited (PTO-892)	4) []] hakamatan o	(DTO, 442)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (Paper No(s)/Mail Dat	te	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 12-19-03.	5) 🔲 Notice of Informal Pa		
- aper recognisian date <u>12-13-03</u> .	6)		

Art Unit: 3663

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-2, 6-12, 25-32 are rejected under 35 U.S.C. 102(e) as being anticipated by Ito et al (6484093).

Regarding claim 1, Ito et al (fig. 1; col. 7, lines 1-50) disclose a navigation navigational device 100, comprising:

a processor 101;

a memory 30 in communication with the processor 101 (fig. 1);

a display 106 in communication with the processor 101, wherein the device uses the memory 30 in cooperation with the processor 101 to compress a plurality of coordinate data (col. 7, lines 30-45; fig. 4) and associate at least a portion of activation data with each coordinate data

Art Unit: 3663

((col. 7, lines 30-45; figs. 13, etc), each coordinate data having three or more dimensions (col. 8, lines 36-47. Note that all GPS data inherently have three or more coordinate representation of positions), and wherein at least a portion of the coordinate data is dynamically communicated to the display (106; col. 7, lines 30-65; col. 11, lines 59 to col. 12, lines 1-5).

Regarding claim 2, Ito et al disclose the device of claim l, further comprising an interface device operable to audibly communicate at least a portion of the coordinate data.

Regarding claim 6, Ito et al disclose the device of claim 1, wherein at least one of the dimensions is associated with attribute data relating to at least one of the other dimensions (col. 8, lines 36-47. Note that all GPS data inherently have three or more coordinate representation of positions).

Regarding claim 7, Ito et al disclose the device of claim 1, wherein the device is a handheld portable device.

Regarding claim 8, Ito et al disclose the device of claim 1, wherein the memory 30 is remote from the processor 101.

Regarding claim 9, Ito et al (fig. 1; col. 7, lines 1-50) disclose a navigation system, comprising:

- a mass storage device 30 adapted to store navigation data;
- a server (portable communications systems nowadays use internet; col. 7, lines 7-12) adapted to communicate with the mass storage 30; and

a navigation device 100 adapted to communicate with and retrieve navigation data from the server via a communication channel (fig. 1), wherein the navigation device includes a processor 101 in communication with a memory 102B, wherein the processor and memory

Art Unit: 3663

cooperate to compress at least three dimensional data (col. 8, lines 36-47. Note that all GPS data inherently have three or more coordinate representation of positions) associated with the navigation data and activation data associated with the at least three dimensional data col. 7, lines 30-65; col. 11, lines 59 to col. 12, lines 1-5).

Regarding claim 10, Ito et al disclose the system of claim 9, wherein the communication channel includes a wireless channel.

Regarding claim 11, Ito et al (inherently) disclose the system of claim 9, wherein the activation data are configurable to activate or deactivate each dimension within the at least three dimensional data of the navigation data.

Regarding claim 12, Ito et al disclose the system of claim 11, wherein the navigation data are compressed within the memory.

Regarding claim 25, Ito et al disclose a navigational device, comprising:

- a memory;
- a display;
- a processor that cooperates with the memory to compress navigation data having three or more dimensions wherein the navigation data includes control data and coordinate data; and
- a Global Positioning Satellite (GPS) receiver that cooperates with the processor and provides to the processor specific values for coordinate data, wherein the processor matches the values with portions of the compressed. navigation data using the control data and dynamically decompresses those matched portions and communicates the decompressed matched portions to the display.

Page 5

Application/Control Number: 10/086,370

Art Unit: 3663

Regarding claim 26, Ito et al disclose the navigational device of claim 25, wherein the navigation device is a portable digital assistant.

Regarding claim 27, Ito et al disclose the navigation device of claim 25, wherein the navigation data includes attribute data within one or more of the three or more dimensions, and wherein the attribute data drives presentation effects of the decompressed matched portions on the display.

Regarding claim 28, Ito et al disclose the navigation device of claim 25, wherein the navigational device transmits the decompressed matched portions to an external device.

Regarding claim 29, Ito et al disclose the navigational device of claim 25, wherein each of the three or more dimensions include cartographic data.

Regarding claim 30, Ito et al disclose the navigational device of claim 25, wherein the decompressed match portions represent in least in part a current position of the device within a route that the device is traveling along.

Regarding claim 31, Ito et al disclose the navigational device of claim 25 further comprising an audio device in cooperation with the processor, wherein the audio device communicates at least a part of the decompressed matched portions audibly.

Regarding claim 32, Ito et al disclose the navigational device of claim 25 wherein at least one of the three or more dimensions associated with the decompressed matched portions includes landmark data proximate to the navigational device.

Art Unit: 3663

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ito et al in view of Robinson et al (5995970).

Regarding claim 3, Ito et al disclose the device of claim I, but did not disclose a delta size associated with an optimal size to compress each coordinate data. However, Robinson et al (abstract; col. 1, lines 38-60; claim 1) disclose a storage medium for storing navigational data, wherein each dimension of coordinate data includes a delta size associated with an optimal size to pack each coordinate data.

Therefore, it would have been obvious to one of ordinary skill in the art of navigation to modify the Ito device as taught by Robinson for the purpose of saving memory space when storing navigation data.

Regarding claim 4, Ito et al (col. 1, lines 62-67) disclose the device of claim 3, wherein at least one of the coordinate data exceed the delta size associated with compressing the at least one coordinate data and wherein associating one or more special data ensures the at least one coordinate data are compressed within the delta size associated with the coordinate data.

Regarding claim 5, Ito et al disclose the device of claim 4, wherein: each dimension is associated with a direction; and

Art Unit: 3663

if each direction within each dimension of each associated coordinate data proceeds in a same direction then using a single sign data (col. 2, lines 4-12) for each dimension to compress each coordinate data.

Response to Arguments

5. Applicant's arguments filed 12-19-03 have been fully considered but they are not persuasive for the following reasons:

The applicant is arguing that Ito does not disclose compression and decompression. The examiner respectfully disagrees. Applicant's arguments have no basis since the applicant gave no reason why the teaching of storage of data in the Ito disclosure does not imply data compression. Ito does not have to use the exact words that the applicant uses, but is only required to teach the limitation in the claim. In Ito fig. 4, it cam be clearly seen data in fig. 4a and be are compressed/decompressed.

Next, the applicant argues that Robinson (US 5995970) can not be used as prior art in the 103(a) rejection above because of the AIPA amendments to 35 USC 102(e). In response, the examiner disagrees. The applicant has wrongly interpreted the AIPA amendments to 35 USC 102(e). As a matter of fact, although Robinson belongs to the same assignee as the applicant, Robinson was patented more than 1 year before applicant's invention therefore, Robinson qualifies as prior art under 35 USC 103(a).

It is believed that the rejections are proper and thus stand.

Art Unit: 3663

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Communication

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ronnie Mancho whose telephone number is 703-305-6318. The examiner can normally be reached on Mon-Thurs; 9-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Black can be reached on 703-305-9707. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1113.

Ronnie Mancho Examiner Art Unit 3663

4/15/04

THOWAS G. BLACK THOWAS GROUP JEON